# BEARS

Through the Seasons





Kindergarten
Student Guide



Name



Missouri Department of Conservation, PO Box 180, Jefferson City, MO 65102-0180 mdc.mo.gov

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# BEARS Through the Seasons

### Kindergarten Student Guide





# Summer for a Bear





Look at the photos.

Name things you might see and do in summer.





# Signs of Summer

What I Notice...



What I Wonder...



What do I do and see in summer?



## Draw It!

Draw things you might see in summer.

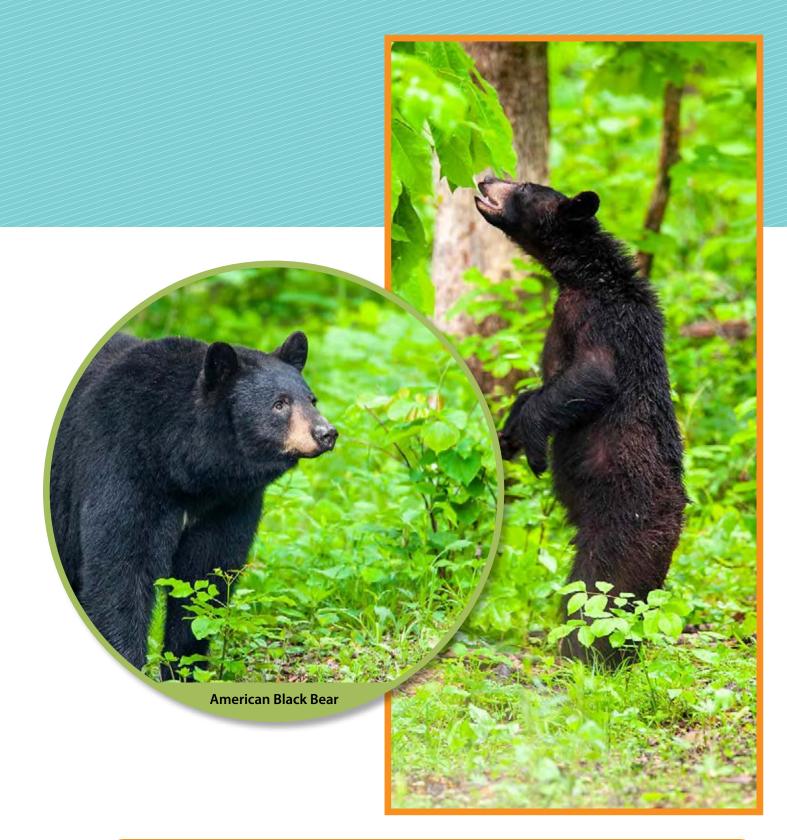




# Read





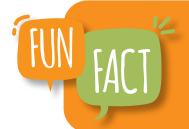




In the summer, black bears in Missouri love to eat ripe berries and fruits.







Missouri has glades which are areas that are like little hot and dry deserts. Glades have very little shade.

## Science Notebook

#### **Summer clothes**



Circle items you would wear in summer.



























What I **Wonder...** 



How do we study weather?











How can we study weather?

nanacter Lineart: @Kateryna Fedorova Art/Shutterstock. com; Clouds: @Flystock/Shutte rstock.com; Umbrella: @KAMONRAT/Shutterstock.com; Lake Girl @Monika Gniot/Shutte

We can look at the sky.

What kinds of weather can you name?















How do you dress in different kinds of weather?



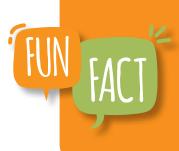












Missouri animals are always dressed just right. Many have hair or fur that changes for each season.



White-tailed Deer



# Science Notebook

Match the clothing to the weather.

Draw a line from clothes to weather.



1.





2.









4.



### Recording Weather

qedrees. Today's temperature is

Circle one of the following.



;;;;;	0	si yys eht yeboT

***	qedrees	
***	qedrees	
300	qedrees	
***	qedrees	
300	qedrees	
Today the sky is (circle one)	Today the temperature is	si ɣsboT





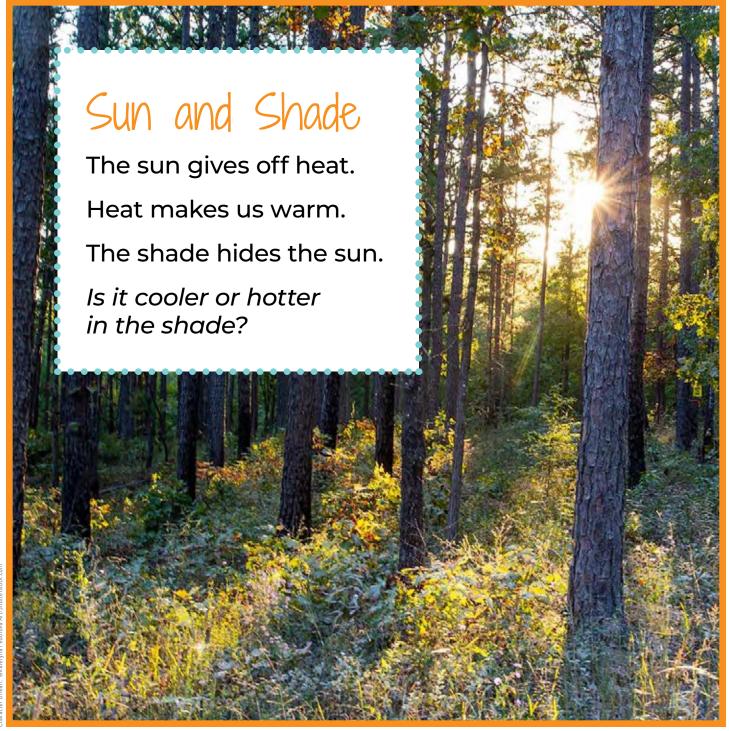


What I **Wonder...** 





# Read With Together





## Animals Keep Cool

Animals look for shade when it is hot.

Some animals seek sunny spots.

This helps them warm their bodies.





**Fox Squirrel** 

Collared lizards can be found in Missouri glades.

Glades are like mini deserts.



## Science Notebook

#### Sun - Shade

Measure and record the temperature in sun and shade. Then fill in the blanks with the word "cool" or "warm."



	degrees		
	In the shade, it felt	·	
	Cool Warm		
	degrees		
	In the sun, it felt		
	Cool Warm		

dograce







What I **Wonder...** 



It is a hot day and you are outside playing.

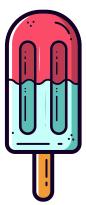


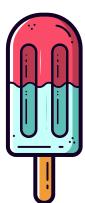












## What is Temperature?

Temperature is how cold or hot something is.

Temperature goes up as things get warmer.

Animals have a temperature and so do you.

The air also has a temperature.

What else has a temperature?





## Science Notebook

#### Sun - Shade Review



Circle the best choice for each.

Temperature in **shade** is\_\_\_\_\_.

cooler warmer

Temperature in **sun** is \_\_\_\_\_ .

cooler warmer

The \_\_\_\_\_ area was warmer.

sunny shady





Look at the picture.

Why does this animal want to sit on the rock on a sunny day? **Eastern Collared Lizard** 

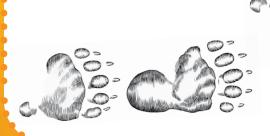


## Science Notebook

### Taking Temperature Data Sheet



Outside Temperature						
Day	Morning	Noon	Afternoon			
1						
2						
3						
4						
5						





## Draw H!

Imagine it is a sunny summer day in the woods. Draw the best spot for you or a bear to get cool.











What I **Wonder...** 



It is a hot day and you are outside playing.

**BEARS Through the Seasons** | Kindergarten Student Guide

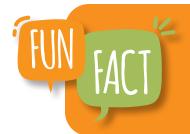
How might you cool off? How do animals cool off? **Eastern Collared Lizard American Black Bear** 











Some animals have warm blood and some have cold. You have warm blood.



**Blue Jay** 





### How Do I Compare to a Bear?

Sing to the tune of *Three Blind Mice*. It is hot. It is hot.

Where can I go? Where can I go? I can jump in a swimming pool, When it is hot, to make me cool. It is hot. It is hot.





### Grin and "Bear" H.

Sing to the tune of Three Blind Mice

Bears get hot,

Just like me.

Where can they go?

Where can they go?

They can hide to get cooled down,

Under shade trees and on the ground.

Bears get hot.

Just like me.



## Draw It!

Read along to the poems on the last two pages.

Draw how you and a bear get cool.





# What Lives in My Schoolyard?

What I **Notice...** 



What I **Wonder...** 









### Who Lives Here?

Who lives here?

Many critters do.

We might find many,

We might find few.

We might find bugs.

We might find snails.

We might find animals

With long furry tails.







## Draw It!

What kinds of animals do you think you will find outside?
Draw your guesses below.



### My Area

Draw what you found in your area. Remember to draw your shape first and then draw what you see inside your shape.

What questions are you asking yourself as you explore your area?



## Science Notebook

#### My Area

How many plants did you see? How many animals? Make a tally mark (I) for each plant or animal you saw.



Example: Plants	
Plants	
Animals	

Did you see more plants or animals?

### **Who Belongs?**

Circle the animals that might be found in your schoolyard.



















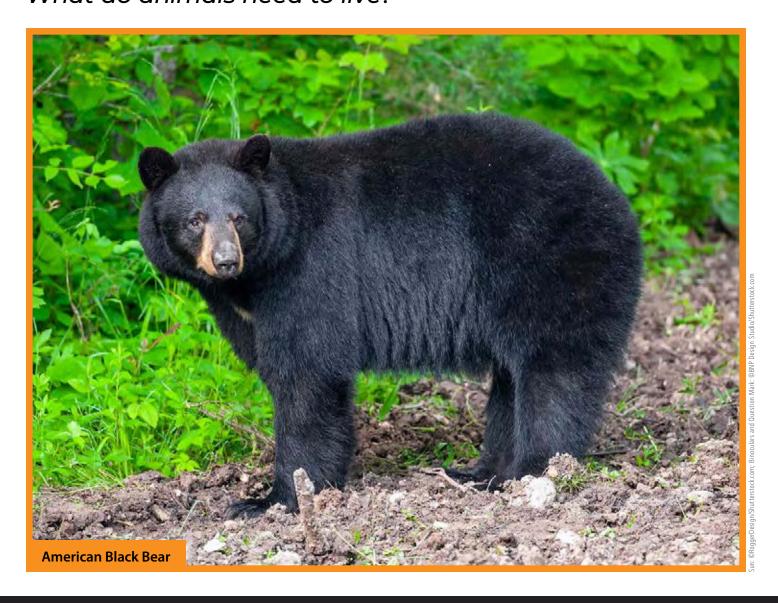




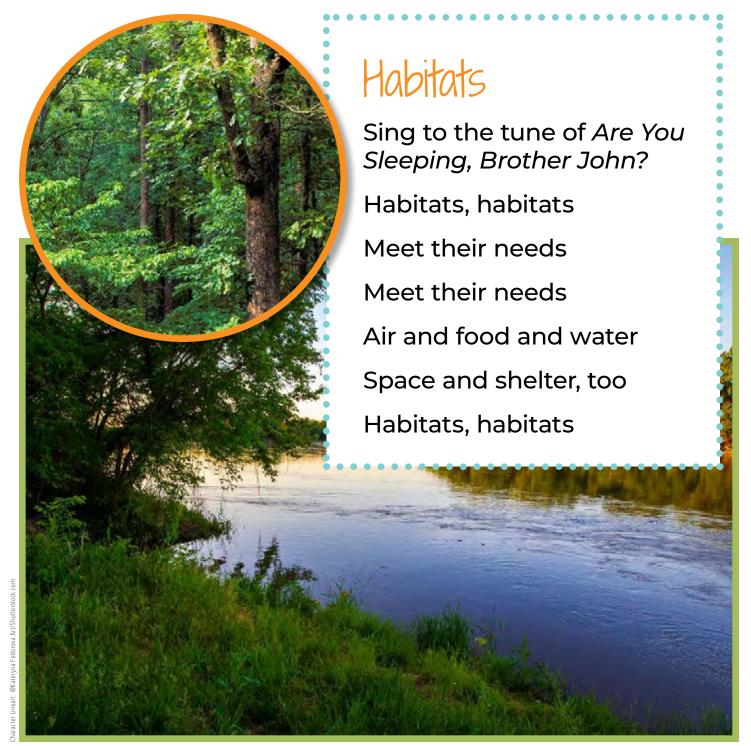


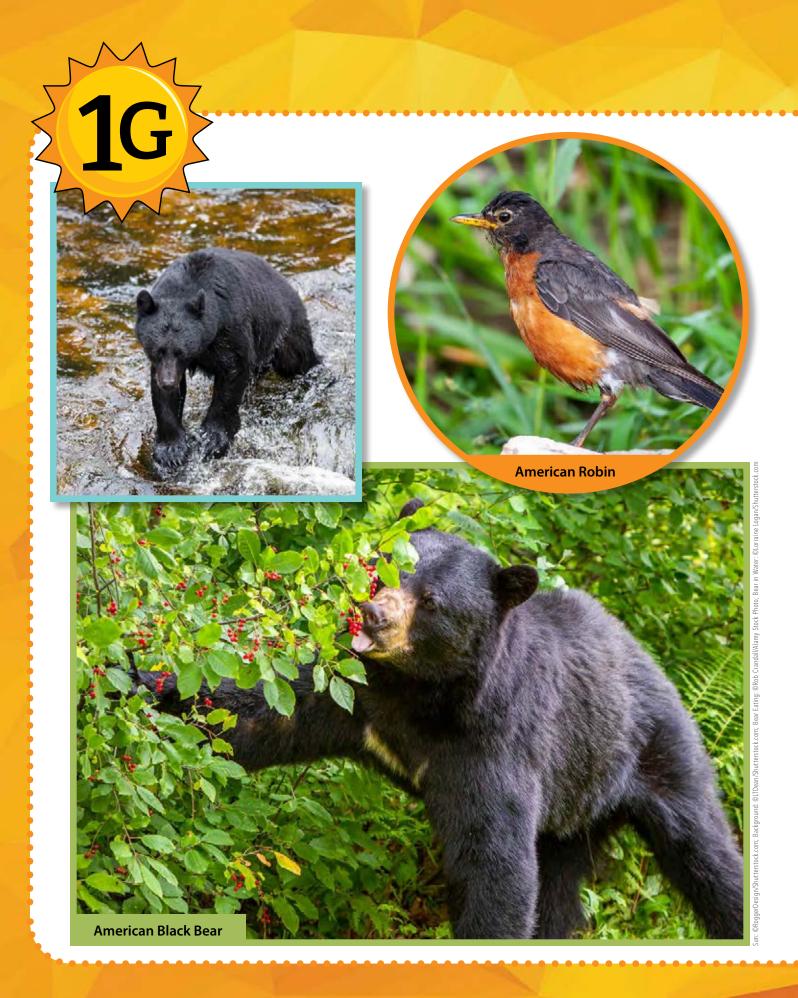


What do animals need to live?









# Character Lineart: @Kateryna Fedorova Art/Shutterstock com

## Draw It!

Think about what your animal needs to survive. Draw the needs of your team's animal and what its habitat would look like.











How do bears get their food?



# Read Together



### Bear-y Hungry

How do bears get their food?

Animals do not have grocery stores.

Bears must find their food.

What type of food do you think they might eat?



Black bears in Missouri eat a lot of things. They may eat grass, bugs, and berries. They also like a yummy snack like acorns and other nuts.





# Character Lineart: @Kateryna Eederoya Art/Shutterstock son

## Science Notebook

#### **Push and Pull**

Draw a bear getting food by pushing on or pulling something.

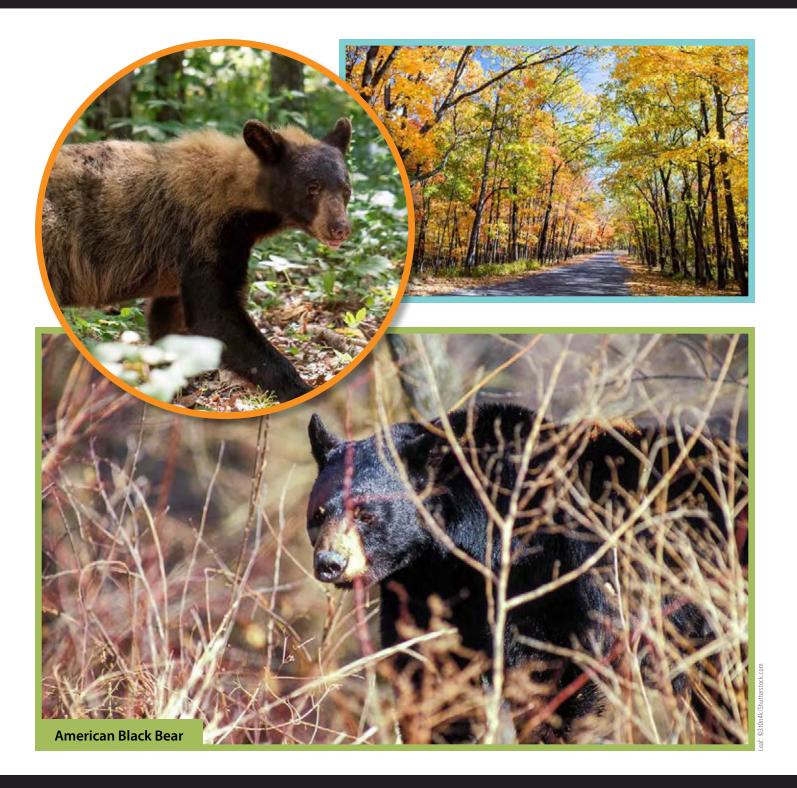
Draw arrows **forward** to show a **push**.

Draw arrows backward to show a pull.





# Bears in the Fall





Look at the photos.

What season is this?

How do you know?





What I **Notice...** 



What I **Wonder...** 



What do plants and animals do in the fall? Why?



# Read Together



### Winter is Coming

Sing to the tune of *Three Blind Mice*.

Winter is coming

Winter is coming

It is getting cold

It is getting cold

Acorns will start falling

Bears will eat them up

It's getting cold

It's getting cold



To prepare for winter, black bears eat a lot! Acorns are a favorite. Many other animals also eat acorns. Can you name a few of those animals?

## Science Notebook

### Recording Weather

Today's temperature is degrees.

Circle one of the following.

Today the sky is ... 辩 📤



k.com; Background: ©LTDean/	100 P	qedrees	
ck.com; Background: @LTDean/Shutterstock.com; Character Lineart: @Kateryna Fedorova Art/Shutterstock.com; Weather Icons: @nataka/Shutterstock.com	100 <b>**</b>	qedrees	
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ather Icons: @nataka/Shutter	100 P	qedrees	
rstock.com	Today the sky is (circle one)	Today the temperature is	si ɣsboT

## Draw H!

You have learned that bears prepare for winter by eating more. When the temperature starts to drop, what other animals in Missouri also prepare for the winter? In what way does that animal prepare for winter? Draw It!









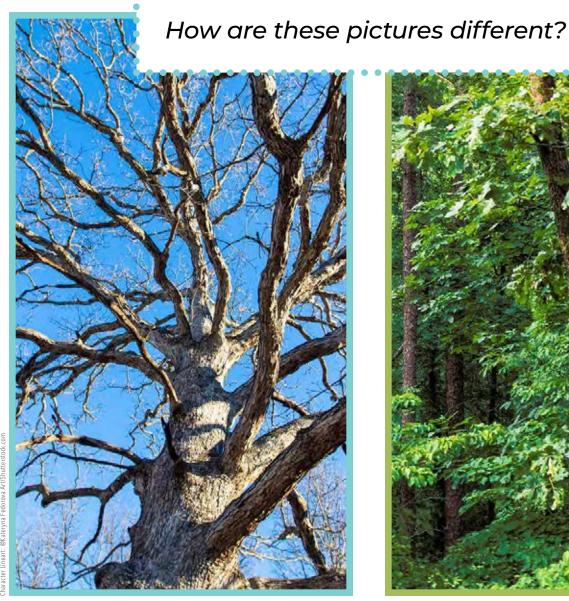
Why do trees look different in the fall?

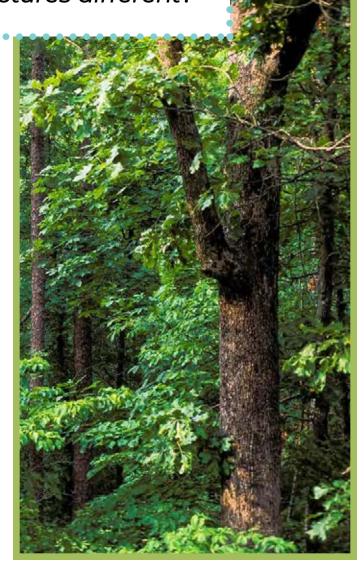




### Pictures of Trees

Look at the pictures of trees.









# Read Together

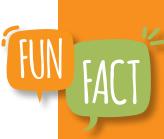


### Losing Leaves

In the fall, trees look different than in summer.

Why do you think this happens?

Do you dress differently in fall than you do in summer?



Some trees in Missouri do not lose their leaves in fall and winter. Trees like cedars and pines that do not lose their leaves are called evergreen trees.

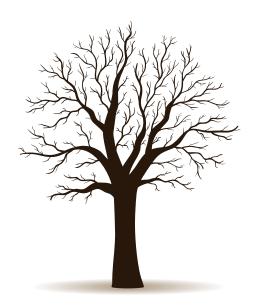




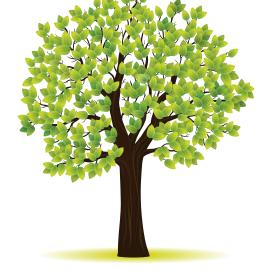
# Science Notebook

#### **Match the Season**

Draw a line to match the tree to the time of year it can be found.



Spring



Summer



Fall





### **My Growing Seedlings**

Draw a picture of each of your seedlings each week under the correct column:



Week		
1		
2		
3		
4		
5		
6		

MDC Discover Nature Schools









What do black bears do to get ready for the winter?



# Read Together





## Draw It!

## Storing Up



Draw what a bear does in the fall. *How big is your* bear? Draw what a bear does in the winter. How big is your bear?

Are the bear sizes different? Why?

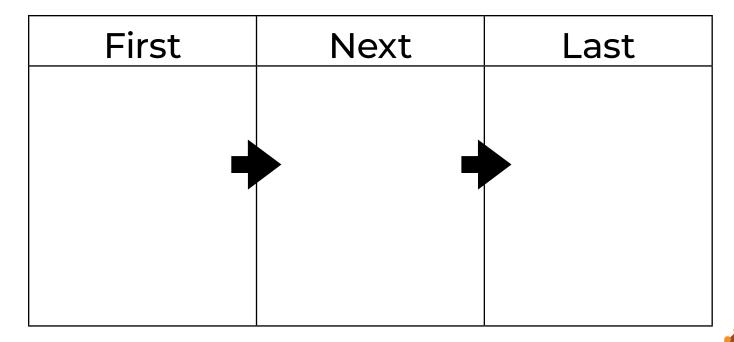
## Science Notebook

#### What Happens Next?

Put the items below in order and draw what you think comes first, next, and then last. Why? Explain to your classmates or teachers







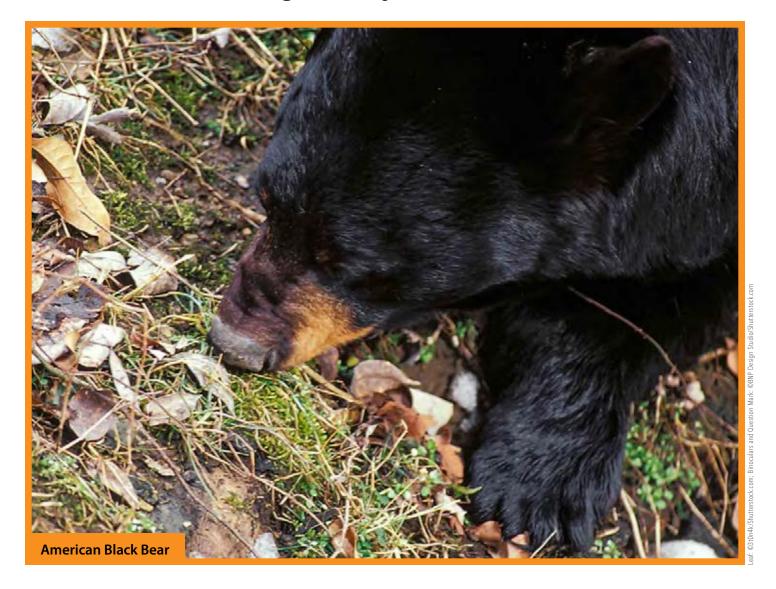








What do bears do to get ready for the winter?



# Read With Together







### Are All Black Bears Black?

Missouri black bears often have black fur.

Sometimes black bears are not black.

Look at the photos.

Can you spot which one is blonde?

Can you spot which one is brown?





# Science Notebook

### **Map Your Nap**

Draw a map of the spot you chose for your bear nap and write the temperature of your spot.















How do bears use their den to survive?



## Draw It!

#### This Den for the Win!

Draw the best den that was created. Why is this the best den?





### Bears Use Dens

Sing to the tune of Are You Sleeping, Brother John?

Bears use dens, bears use dens

To survive, to survive

Some have sticks and logs

Some find hollow trees

Bears use dens, bears use dens











Look at the photos.

What season is this?

How do you know?







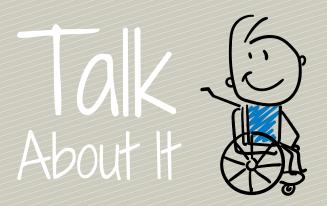


What I **Wonder...** 



How do animals survive in the winter?





How do animals change their behavior in the winter to survive?

Do you do different things in winter than in summer?

Why?





# Read



## Surviving the Cold

In winter, it is cold.

In winter, there is less sunlight.

Many animals need plants to eat to live.

With less sunlight and warmth, there are less plants for animals to eat in winter.





### Recording Weather

qedrees. Today's temperature is

Circle) one of the following.





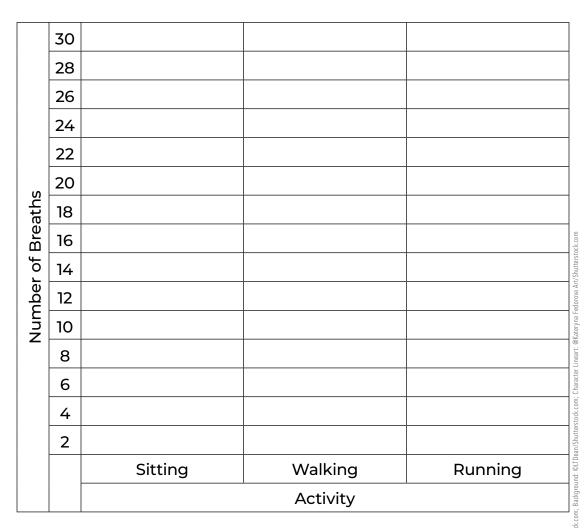
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***	qedrees	
***	qedrees	
Today the sky is (circle one)	Today the temperature is	si yeboT



#### **How Many Breaths?**

Do each activity for one minute. Count your breath after each activity for 20 seconds. As a class, what was our most common number of breaths? Record the class number.



When do you think you were using the most energy?
While I was... Circle one: sitting walking running

## Draw It!

#### **Winter Activities**

Draw a picture of what a bear does in the winter. Draw a picture of what you do in the winter. How are the activities the same or different?



Bear in Winter	Me in Winter







What I **Wonder...** 



How does mama bear keep her cubs safe? How do our own mothers keep us safe?





FUN FACT

When baby bears are born, they only weigh about 8 ounces. That is less than a pound and about the size of an orange.



owflake: ©3t0n4k/Shutterstock.com; Binoculars and Ouestion Mark: ©BNP [





### Mama Bear

Sing to the tune of the *ABC* song.

Mama bear, mama bear

Where are you?

Baby bear, baby bear

Here with you.

You can hear me by my sound.

Letting you know that I'm around.

Baby bear, baby bear listen for me

That will keep you safe, you see.



# Draw It!

### **Listen Up!**

Draw a scene of an adult using words to keep you safe.











What I **Wonder...** 



How do our homes keep us safe during bad weather?



# Read Together

## Be Prepared

The wind blows fast

We look and see,

The sky turns dark

For bears and me.

The air is cold

Safe home we run.

Bears are safe,

In their den when the storm is done.

What kind of weather is in this photo?

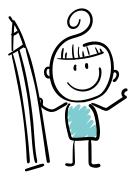
How can we tell that unsafe weather is coming?



#### A Safe and Snug Shelter

Thinking about what we learned in our experiment, draw a shelter that will keep a family safe and dry from severe weather.

Why do you think this is the best shelter?





What I **Notice..** 



What I **Wonder...** 



How do bears find food when they wake up?



# Read Together

A Nose for Food When bears wake up, they are hungry.

Are you hungry when you wake up?

Many of a bear's favorite foods are not available in winter.

They must use their nose to smell food nearby.

**American Black Bear** 



#### **Sniff it Out**



Imagine you are a bear that just woke up. Draw yourself as a bear finding food. Include the food you find and how you found it.





# Bears in the Spring!





Look at the photos.

What season is this?









What I **Wonder...** 



What do people and animals do in the spring?



# Read



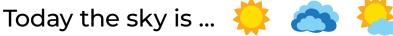


#### **Recording Weather**

Today's temperature is \_\_\_\_\_ degrees.



Circle) one of the following.











Today is	Today the temperature is	Today the sky is (circle one)
	degrees	* A * WE
	degrees	<b>♦ ♦ ♦</b>
	degrees	
	degrees	* * * ***
	degrees	***

# Draw It!

### Me in the Spring

Draw a picture of something you like to do in the spring.





# Sprouting Seedlings

What I Notice.



What I Wonder...





# Read Single Together





#### **Seedling Growth and Water**

How tall is your plant?

With your group, measure and record the growth of your seed once a week over six weeks.

What measurement tool are you using? Keep using the same measurement tool each week.

Date	No Water	1 Teaspoon of Water	1/4 Cup of Water
			lock com
			ound: @IDean/Shutters
			Dogwood: @NaturallyCurvy/Shutterstock.com; Background: @LIDean/Shutterstock.com
			ywood; @NaturallyCurvy

#### Seedling Growth and Light

How tall is your plant?

With your group, measure and record the growth of your seed once a week over six weeks.



What measurement tool are you using? Keep using the same measurement tool each week.

Date	No Sunlight	Small Amount of Sunlight	Direct Sunlight

Character Lineart: @Kateryna Fec







What I **Wonder...** 



Why do plants grow in different places?



# Read Together



## Every Tree Has a Place

Plants and trees have different needs in order to grow.

Some plants need a lot of water and sunshine. Other plants may need less.

Do you have different needs than your family?



#### **Changes**

Draw how the growing plant or tree changes its surroundings.







# Sunshine Days

What I **Notice...** 



What I **Wonder...** 



When do we have the most sun during the year?



: @NaturallyCurvy/Shutterstock.com; Binoculars and Question



Look at the photo.

Is this a photo of summer or winter?

Is it daylight or dark?

Is it darker at the same time of day in winter?





## **What Does Our Graph Say?**

What season has the <b>most</b> daylight hours?	
What season has the <b>least</b> daylight hours?	

				_
15				
14				
13				
12				
11				
10				
9				
8				
7				-
6				
5				
4				
3				
2				3
1				=
	Summer	Fall	Winter	Spring















What I **Wonder...** 



How can we be more bear aware?







## Bear Aware Song

Sing to the tune of the *Three Blind Mice*.

Be bear aware

Be bear aware

Yes, we should care

How they fare

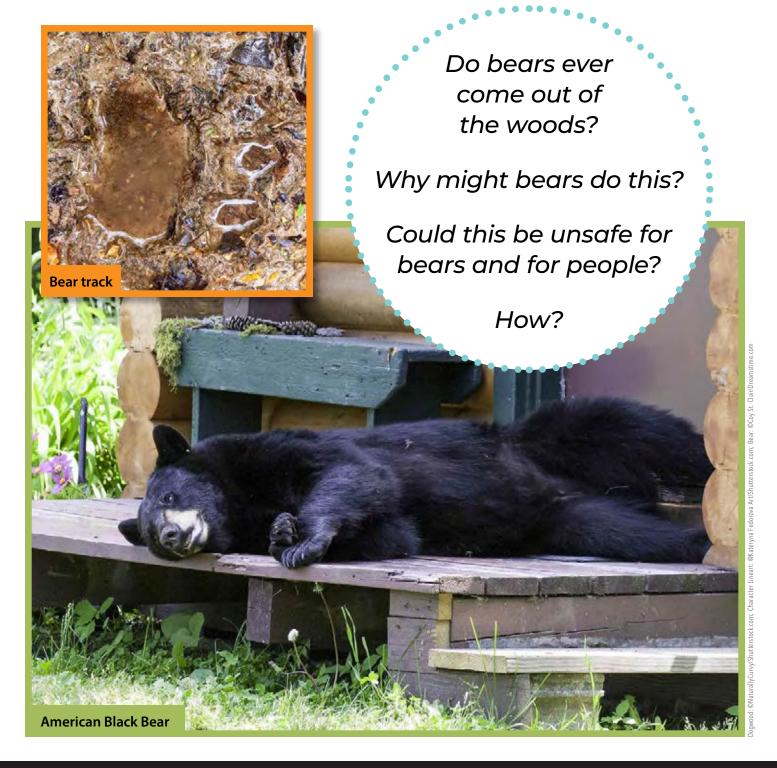
Don't leave the garbage lying all around

In places near where a bear might be found

Be bear aware

Be bear aware





# Draw It!

#### **Be Bear Aware**

Draw how you could make sure you are being bear aware.





## Draw It!





Happy Graduation! Let's review what you learned this year. Flip back through your student guide and draw your favorite bear lesson or activity.

#### **Bear Aware Pledge**



I \_\_\_\_\_ solemnly promise that I will be more bear aware.

I will talk with my friends, family, and neighbors about what can attract a bear or other Missouri wildlife to our neighborhood so we can keep our bears wild.

I will watch for food sources in our neighborhood that can attract bears or other Missouri critters and take those food sources away.

I will work hard to keep bears and other Missouri wildlife wild.

# Congratulations!

You have completed a one-year study on Missouri Black Bears and will now graduate from a bear cub to a bear yearling!

This certificate is presented to:

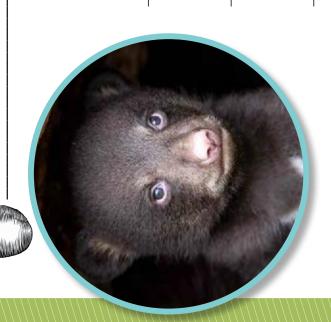


Date:



Kindergarten Teacher:

School Name:





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